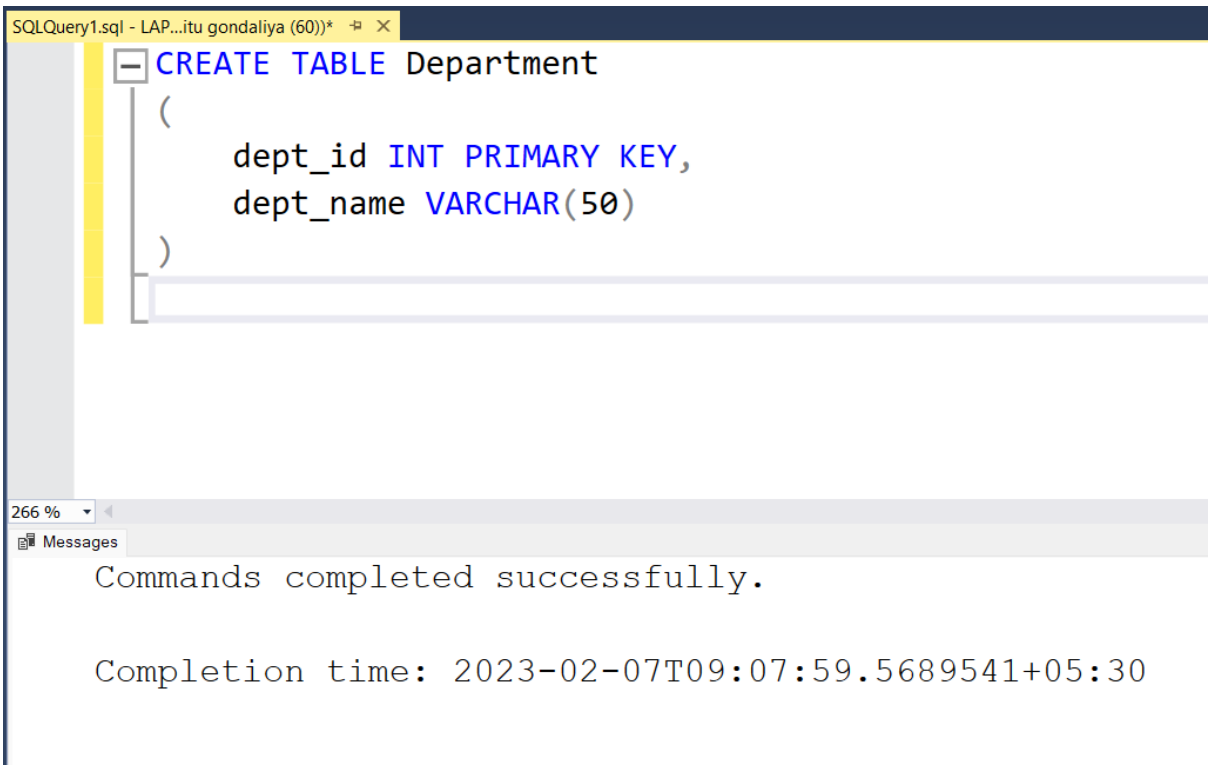
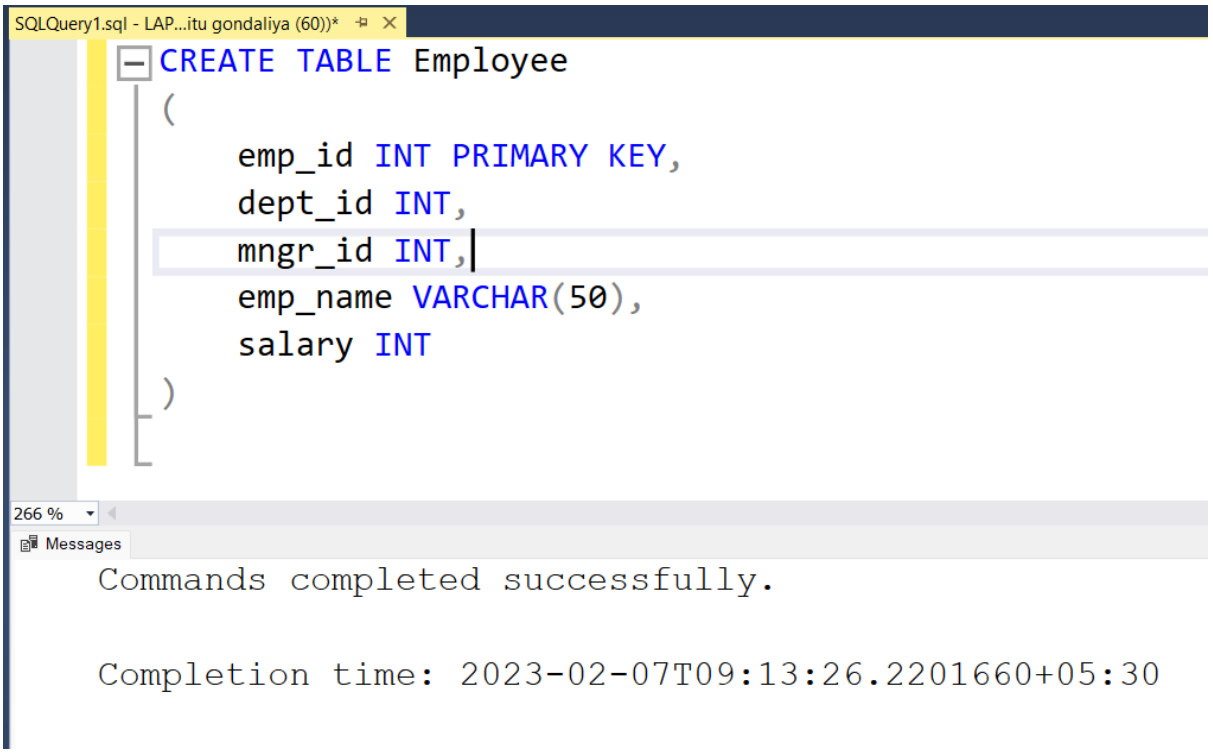
Assignment 3

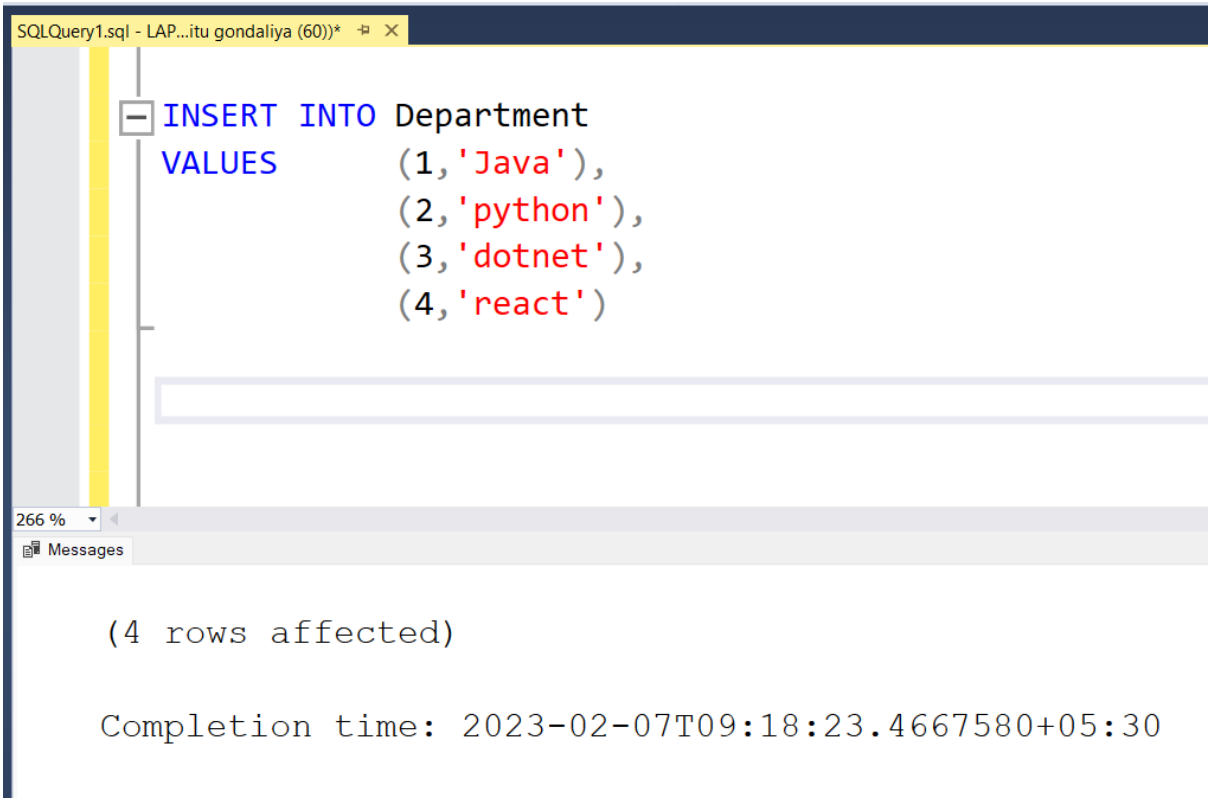
1.CREATE TABLE Department
(
dept_id INT PRIMARY KEY,
dept_name VARCHAR(30)
)

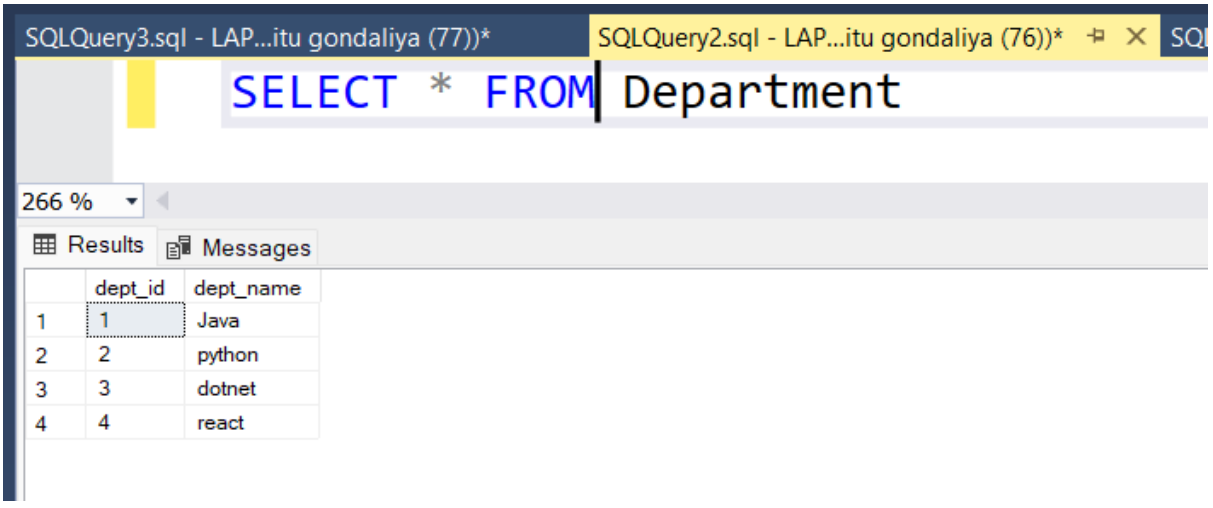


2.CREATE TABLE Employee
(
	emp_id INT PRIMARY KEY,
	dept_id INT,
	mngr_id INT,
	emp_name VARCHAR(50),
	salary INT
)

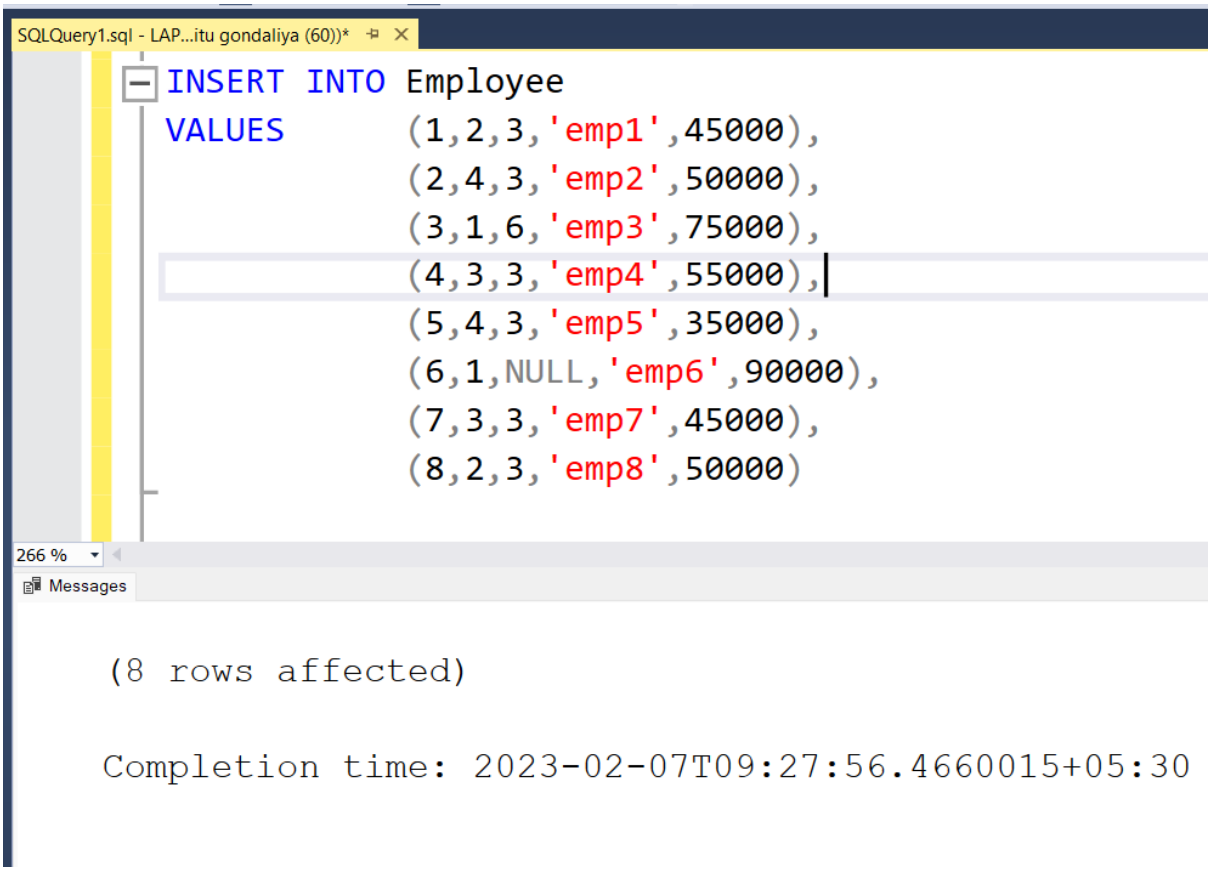


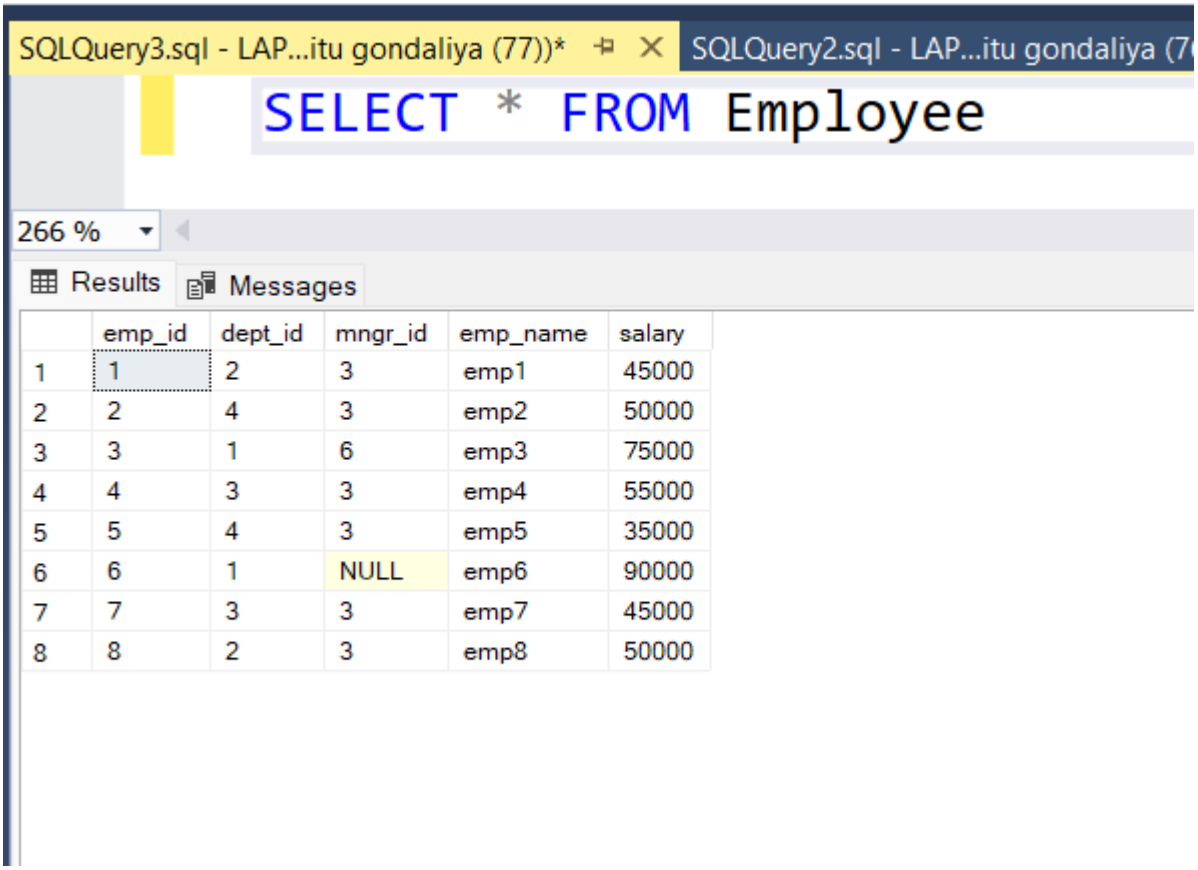
```
INSERT INTO Department
VALUES      (1,'Java'),
            (2,'python'),
            (3,'dotnet'),
            (4,'react')
```





```
INSERT INTO Employee
VALUES      (1,2,3,'emp1',45000),
            (2,4,3,'emp2',50000),
            (3,1,6,'emp3',75000),
            (4,3,3,'emp4',55000),
            (5,4,3,'emp5',35000),
            (6,1,NULL,'emp6',90000),
            (7,3,3,'emp7',45000),
            (8,2,3,'emp8',50000)
```



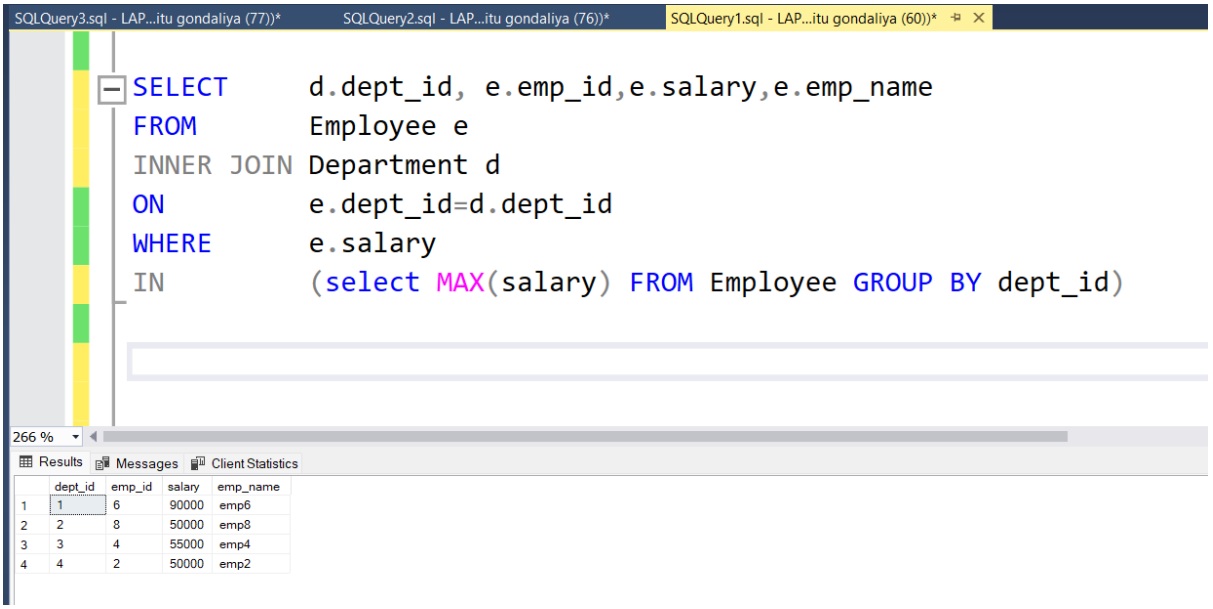


	emp_id	dept_id	mngr_id	emp_name	salary
1	1	2	3	emp1	45000
2	2	4	3	emp2	50000
3	3	1	6	emp3	75000
4	4	3	3	emp4	55000
5	5	4	3	emp5	35000
6	6	1	NULL	emp6	90000
7	7	3	3	emp7	45000
8	8	2	3	emp8	50000

Query 1 :

write a SQL query to find Employees who have the biggest salary in their Department

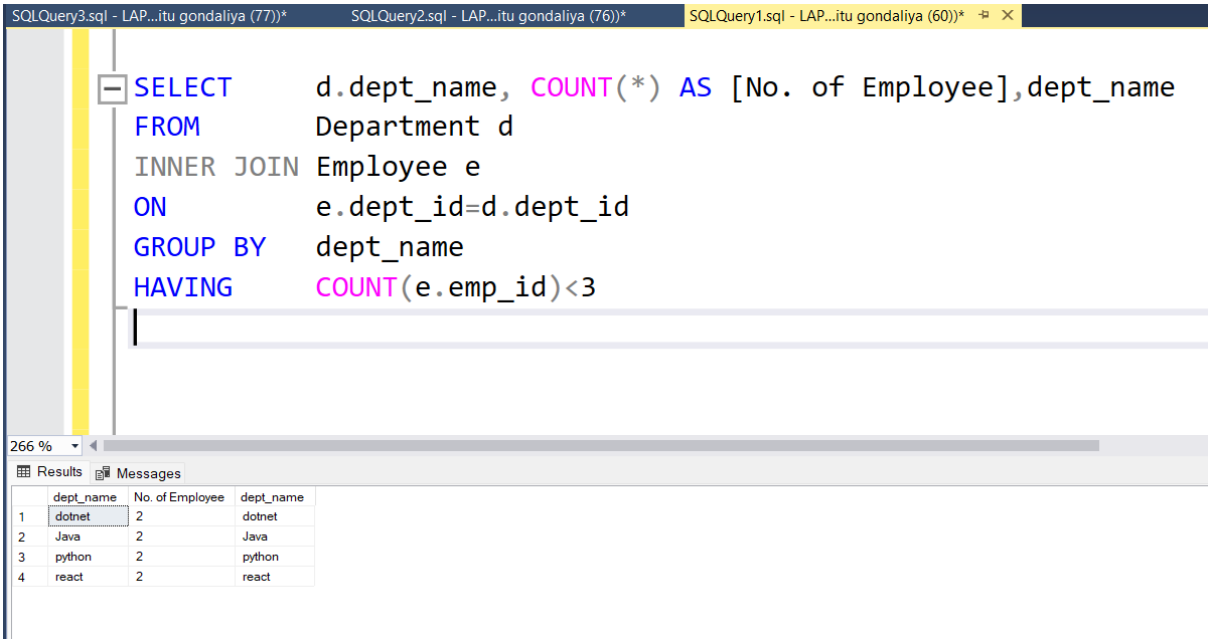
```
SELECT     d.dept_id, e.emp_id,e.salary,e.emp_name
FROM       Employee e
INNER JOIN Department d
ON         e.dept_id=d.dept_id
WHERE      e.salary
IN         (select MAX(salary) FROM Employee GROUP BY dept_id)
```



Query 2 :

write a SQL query to find Departments that have less than 3 people in it

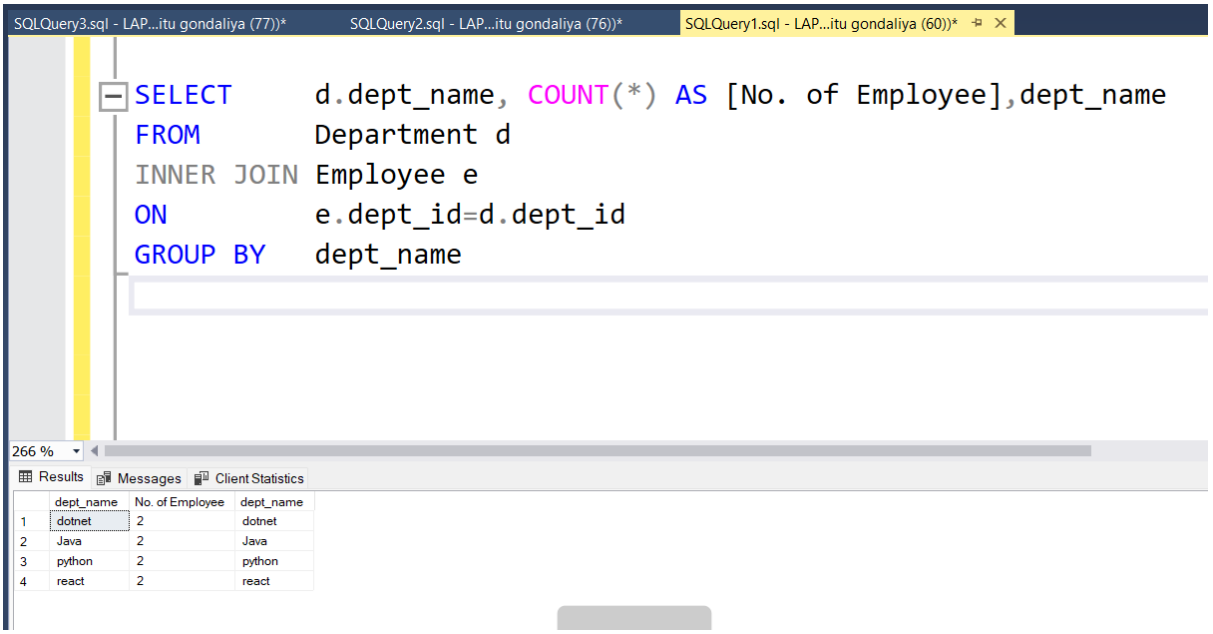
```
SELECT     d.dept_name, COUNT(*) AS [No. of Employee],dept_name
FROM       Department d
INNER JOIN Employee e
ON         e.dept_id=d.dept_id
GROUP BY   dept_name
HAVING     COUNT(e.emp_id)<3
```



Query 3 :

write a SQL query to find All Department along with the number of people there

```
SELECT     d.dept_name, COUNT(*) AS [No. of Employee],dept_name
FROM       Department d
INNER JOIN Employee e
ON         e.dept_id=d.dept_id
GROUP BY   dept_name
```



Query 4 :

write a SQL query to find All Department along with the total salary there

```
SELECT     d.dept_id,d.dept_name, SUM(e.salary) AS [Total Salay]
FROM       Department d
INNER JOIN Employee e
ON         e.dept_id=d.dept_id
GROUP BY   dept_name,d.dept_id
```